

SEQUENCE LISTING\_58778\_000002.txt  
SEQUENCE LISTING

<110> Daiichi Suntory Pharma Co.,Ltd.  
Kenji KANGAWA

<120> A method for producing a modified peptide

<130> D05F1044

<150> PCT/JP03/04590

<151> 2003-04-10

<160> 39

<210> 1

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<223> Amino acid sequence for human endogenous peptides of growth hormone secretagogue

<400> 1

Gly	Ser	Ser	Phe	Leu	Ser	Pro	Glu	His	Gln	Arg	Val	Gln	Gln	Arg	Lys
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Glu	Ser	Lys	Lys	Pro	Pro	Ala	Lys	Leu	Gln	Pro	Arg				
				20				25							

<210> 2

<211> 27

<212> PRT

<213> Homo sapiens

<220>

<223> Amino acid sequence for human endogenous peptides (27 amino acids) of growth hormone secretagogue

<400> 2

Gly	Ser	Ser	Phe	Leu	Ser	Pro	Glu	His	Gln	Arg	Val	Gln	Arg	Lys	Glu
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Ser	Lys	Lys	Pro	Pro	Ala	Lys	Leu	Gln	Pro	Arg					
			20				25								

<210> 3

<211> 28

<212> PRT

<213> Rattus norvegicus

<220>

<223> Amino acid sequence for rat endogenous peptides of growth hormone secretagogue

<400> 3

Gly	Ser	Ser	Phe	Leu	Ser	Pro	Glu	His	Gln	Lys	Ala	Gln	Gln	Arg	Lys
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Glu	Ser	Lys	Lys	Pro	Pro	Ala	Lys	Leu	Gln	Pro	Arg				
			20					25							

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<212> PRT

<213> Rattus norvegicus

<220>

<223> Amino acid sequence for rat endogenous peptides (27 amino acids) of growth hormone secretagogue

<400> 4

Gly	Ser	Ser	Phe	Leu	Ser	Pro	Glu	His	Gln	Lys	Ala	Gln	Arg	Lys	Glu
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Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg  
 20 25

<210> 5

<211> 28

<212> PRT

<213> Mus musculus

<220>

<223> Amino acid sequence for mouse endogenous peptides of growth hormone secretagogue

<400> 5

Gly Ser Ser Phe Leu Ser Pro Glu His Gln Lys Ala Gln Gln Arg Lys  
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg  
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<210> 6

<211> 28

<212> PRT

<213> Sus scrofa (pig)

<220>

<223> Amino acid sequence for porcine endogenous peptides of growth hormone secretagogue

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Gly Ser Ser Phe Leu Ser Pro Glu His Gln Lys Val Gln Gln Arg Lys  
 1 5 10 15

Glu Ser Lys Lys Pro Ala Ala Lys Leu Lys Pro Arg  
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<210> 7

<211> 27

<212> PRT

<213> Bos taurus

<220>

<223> Amino acid sequence for bovine endogenous peptides (27 amino acids) of growth hormone secretagogue

<400> 7

Gly Ser Ser Phe Leu Ser Pro Glu His Gln Lys Leu Gln Arg Lys Glu  
 1 5 10 15

Ala Lys Lys Pro Ser Gly Arg Leu Lys Pro Arg  
 20 25

<210> 8

<211> 27

<212> PRT

<213> Ovis aries

<220>

<223> Amino acid sequence for ovine endogenous peptides (27 amino acids) of growth hormone secretagogue

<400> 8

Gly Ser Ser Phe Leu Ser Pro Glu His Gln Lys Leu Gln Arg Lys Glu  
 1 5 10 15

Pro Lys Lys Pro Ser Gly Arg Leu Lys Pro Arg  
 20 25

<210> 9

<211> 28

<212> PRT

<213> Canis familiaris

<220>

<223> Amino acid sequence for dog endogenous peptides of growth hormone secretagogue

<400> 9

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Gly Ser Ser Phe Leu Ser Pro Glu His Gln Lys Leu Gln Gln Arg Lys  
 1 5 10 15  
 Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg  
 20 25

<210> 10  
 <211> 21  
 <212> PRT  
 <213> *Anguilla japonica*  
 <220>  
 <221> AMIDATION  
 <222> 21  
 <223> Amino acid sequence for eel endogenous peptides of growth hormone  
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 <400> 10

Gly Ser Ser Phe Leu Ser Pro Ser Gln Arg Pro Gln Gly Lys Asp Lys  
 1 5 10 15  
 Lys Pro Pro Arg Val  
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<210> 11  
 <211> 23  
 <212> PRT  
 <213> *Oncorhynchus mykiss*  
 <220>  
 <221> AMIDATION  
 <222> 23  
 <223> Amino acid sequence for rainbow trout endogenous peptides (23 amino  
 acids) of growth hormone secretagogue  
 <400> 11

Gly Ser Ser Phe Leu Ser Pro Ser Gln Lys Pro Gln Val Arg Gln Gly  
 1 5 10 15  
 Lys Gly Lys Pro Pro Arg Val  
 20

<210> 12  
 <211> 20  
 <212> PRT  
 <213> *Oncorhynchus mykiss*  
 <220>  
 <221> AMIDATION  
 <222> 20  
 <223> Amino acid sequence for rainbow trout endogenous peptides (20 amino  
 acids) of growth hormone secretagogue  
 <400> 12

Gly Ser Ser Phe Leu Ser Pro Ser Gln Lys Pro Gln Gly Lys Gly Lys  
 1 5 10 15  
 Pro Pro Arg Val  
 20

<210> 13  
 <211> 24  
 <212> PRT  
 <213> *Gallus domesticus*  
 <220>  
 <223> Amino acid sequence for chicken endogenous peptides of growth  
 hormone secretagogue  
 <400> 13

Gly Ser Ser Phe Leu Ser Pro Thr Tyr Lys Asn Ile Gln Gln Gln Lys  
 1 5 10 15  
 Gly Thr Arg Lys Pro Thr Ala Arg  
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<210> 14  
 <211> 24  
 <212> PRT  
 <213> Gallus domesticus  
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 <223> Amino acid sequence for chicken endogenous peptides of growth hormone secretagogue  
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<210> 15  
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 <212> PRT  
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 Asp Thr Arg Lys Pro Thr Ala Arg Leu His  
                     20                    25

<210> 16  
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 <212> PRT  
 <213> Rana cafesbeiana  
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 <223> Amino acid sequence for frog endogenous peptides of growth hormone secretagogue  
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 Gly Leu Thr Phe Leu Ser Pro Ala Asp Met Gln Lys Ile Ala Glu Arg  
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 Gln Ser Gln Asn Lys Leu Arg His Gly Asn Met  
                     20                    25

<210> 17  
 <211> 28  
 <212> PRT  
 <213> Rana cafesbeiana  
 <220>  
 <223> Amino acid sequence for frog endogenous peptides of growth hormone secretagogue  
 <400> 17  
 Gly Leu Thr Phe Leu Ser Pro Ala Asp Met Gln Lys Ile Ala Glu Arg  
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                     20                    25

<210> 18  
 <211> 20  
 <212> PRT  
 <213> Tilapia nilotica  
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 <221> AMIDATION  
 <222> 20  
 <223> Amino acid sequence for tilapia endogenous peptides of growth hormone secretagogue  
 <400> 18  
 Gly Ser Ser Phe Leu Ser Pro Ser Gln Lys Pro Gln Asn Lys Val Lys

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1 5  
Ser Ser Arg Ile  
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10 15

<210> 19  
<211> 22  
<212> PRT  
<213> Silurus asotus  
<220>  
<221> AMIDATION  
<222> 22  
<223> Amino acid sequence for catfish endogenous peptides of growth hormone  
secretagogue

<400> 19  
Gly Ser Ser Phe Leu Ser Pro Thr Gln Lys Pro Gln Asn Arg Gly Asp  
1 5 10 15  
Arg Lys Pro Pro Arg Val  
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<210> 20  
<211> 23  
<212> PRT  
<213> Silurus asotus  
<220>  
<223> Amino acid sequence for catfish endogenous peptides of growth hormone  
secretagogue

<400> 20  
Gly Ser Ser Phe Leu Ser Pro Thr Gln Lys Pro Gln Asn Arg Gly Asp  
1 5 10 15  
Arg Lys Pro Pro Arg Val Gly  
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<210> 21  
<211> 28  
<212> PRT  
<213> Equus caballus  
<220>  
<223> Amino acid sequence for equine endogenous peptides of growth hormone  
secretagogue

<400> 21  
Gly Ser Ser Phe Leu Ser Pro Glu His His Lys Val Gln His Arg Lys  
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Glu Ser Lys Lys Pro Pro Ala Lys Leu Lys Pro Arg  
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<210> 22  
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<212> PRT  
<213> Artificial sequence  
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<223> Amino acid sequence adjacent to a site cleaved by enterokinase

<400> 22  
Asp Asp Asp Lys  
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<210> 23  
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<223> Amino acid sequence adjacent to a site cleaved by blood coagulation  
Factor Xa  
<400> 23

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Ile Glu Gly Arg  
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<210> 24  
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<212> PRT  
<213> Artificial sequence  
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<223> Amino acid sequence containing a site cleaved by renin  
<400> 24  
Pro Phe His Leu Leu Val Tyr  
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<210> 25  
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<212> PRT  
<213> Artificial sequence  
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<400> 25  
Val Asp Asp Asp Asp Lys  
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<210> 26  
<211> 36  
<212> PRT  
<213> Artificial sequence  
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<223> linker sequence in the fusion protein p117 8-28oPR  
<400> 26  
Glu Pro His His His His Pro Gly Gly Arg Gln Met His Gly Tyr Asp  
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Ala Asp Val Arg Leu Tyr Arg Arg His His Gly Ser Gly Ser Pro Ser  
20 25 30  
Arg His Pro Arg  
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<210> 27  
<211> 36  
<212> PRT  
<213> Artificial sequence  
<220>  
<223> linker sequence in the fusion protein p117 8-28oRR  
<400> 27  
Glu Pro His His His His Pro Gly Gly Arg Gln Met His Gly Tyr Asp  
1 5 10 15  
Ala Asp Val Arg Leu Tyr Arg Arg His His Gly Ser Gly Ser Pro Ser  
20 25 30  
Arg His Arg Arg  
35

<210> 28  
<211> 36  
<212> DNA  
<213> Artificial sequence  
<220>  
<223> primer ORI-RR  
<400> 28  
ggttccggat ccccttctcg acatcgccgg gaacac 36

<210> 29  
<211> 25  
<212> DNA

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<213> Artificial sequence

<220>

<223> primer SAL\*R

<400> 29

ataagtcgac ttatcgtggc tgcag

25

<210> 30

<211> 13

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<213> Artificial sequence

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<223> Synthetic construct

<400> 30

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<210> 31

<211> 13

<212> PRT

<213> Artificial sequence

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<223> Synthetic construct

<400> 31

Arg His His Gly Ser Gly Ser Pro Ser Arg His Pro Arg  
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<210> 32

<211> 13

<212> PRT

<213> Artificial sequence

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<223> Synthetic construct

<400> 32

Arg His His Gly Ser Gly Ser Pro Ser Arg His Lys Arg  
1 5 10

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<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic construct

<400> 33

Gly Ser Ser Phe Leu Ser Pro  
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<210> 34

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic construct

<400> 34

Phe Leu Ser Pro  
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<210> 35

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> linker sequence

<400> 35

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Arg Arg His His Gly Ser Gly Ser Pro Ser Arg His Pro Arg  
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<210> 36

<211> 27

<212> DNA

<213> Artificial sequence

<220>

<223> h8-28f1 - synthetic oligo-DNA nucleotide sequence

<400> 36

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<210> 37

<211> 33

<212> DNA

<213> Artificial sequence

<220>

<223> h8-28r1

<400> 37

acgctgctgg acgcgctggt gttcccgcgg gga 33

<210> 38

<211> 49

<212> DNA

<213> Artificial sequence

<220>

<223> GR2f

<400> 38

cagcgtaagg aatccaagaa gccaccagct aaactgcagc cacgatgag 49

<210> 39

<211> 44

<212> DNA

<213> Artificial sequence

<220>

<223> GR2r

<400> 39

tcgactcatc gtggctgcag tttagctggc ttcttggatt cctt 44